

From the INTERNATIONAL BUREAU

**PCT**

NOTIFICATION OF TRANSMITTAL  
OF COPIES OF TRANSLATION  
OF THE INTERNATIONAL PRELIMINARY REPORT  
ON PATENTABILITY  
(CHAPTER I OR CHAPTER II  
OF THE PATENT COOPERATION TREATY)  
(PCT Rules 44bis.3(c) and 72.2)

To:

OHKAWA, Yuzuru  
Kaimel Patent Office  
Sankyo Central Plaza Building 5F  
11-8, Nishi-Nippori 5-chome  
Arakawa-ku, Tokyo 116-0013  
JAPON

Date of mailing (day/month/year)

19 July 2007 (19.07.2007)

Applicant's or agent's file reference

120049PC-00

**IMPORTANT NOTIFICATION**

International application No.

PCT/JP2005/022269

International filing date (day/month/year)

05 December 2005 (05.12.2005)

Applicant

MABUCHI MOTOR CO., LTD. et al

**1. Transmittal of the translation to the applicant.**

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).



The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

**2. Transmittal of the copy of the translation to the designated or elected Offices.**

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

EP

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

**3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).**

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

Authorized officer

Masashi Honda

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## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 120049PC-00	<b>FOR FURTHER ACTION</b>		See item 4 below
International application No. PCT/JP2005/022269	International filing date ( <i>day/month/year</i> ) 05 December 2005 (05.12.2005)	Priority date ( <i>day/month/year</i> ) 07 January 2005 (07.01.2005)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant MABUCHI MOTOR CO., LTD.			

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

- |                                     |              |   |
|-------------------------------------|--------------|---|
| <input checked="" type="checkbox"/> | Box No. I    | Basis of the report   |
| <input type="checkbox"/>            | Box No. II   | Priority  |
| <input type="checkbox"/>            | Box No. III  | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  |
| <input type="checkbox"/>            | Box No. IV   | Lack of unity of invention  |
| <input checked="" type="checkbox"/> | Box No. V    | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/>            | Box No. VI   | Certain documents cited   |
| <input type="checkbox"/>            | Box No. VII  | Certain defects in the international application  |
| <input type="checkbox"/>            | Box No. VIII | Certain observations on the international application   |

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).

Date of issuance of this report  
10 July 2007 (10.07.2007)

Authorized officer

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# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

**TRANSLATION**

**PCT**

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing  
(day/month/year)

Applicant's or agent's file reference <b>120049PC-00</b>	FOR FURTHER ACTION See paragraph 2 below
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International application No. <b>PCT/JP2005/022269</b>	International filing date (day/month/year) <b>05.12.2005</b>	Priority date (day/month/year) <b>07.01.2005</b>
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International Patent Classification (IPC) or both national classification and IPC

Applicant  
**MABUCHI MOTOR CO., LTD.**

**1. This opinion contains indications relating to the following items:**

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

**2. FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

**3. For further details, see notes to Form PCT/ISA/220.**

Name and mailing address of the ISA/JP	Date of completion of this opinion	Authorized officer
Facsimile No.		Telephone No.

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/022269

Box No. I

Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of:  
☒ the international application in the language in which it was filed  
☐ the translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rule 12.3(a) and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material  
☐ a sequence listing  
☐ table(s) related to the sequence listing
  - b. format of material  
☐ on paper  
☐ in electronic form
  - c. time of filing/furnishing  
☐ contained in the international application as filed  
☐ filed together with the international application in electronic form  
☐ furnished subsequently to this Authority for the purposes of search
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/022269

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1.	Statement							
	Novelty (N)	<table border="0"> <tr> <td>Claims</td> <td>6, 9</td> <td>YES</td> </tr> <tr> <td>Claims</td> <td>1-5, 7, 8, 10</td> <td>NO</td> </tr> </table>	Claims	6, 9	YES	Claims	1-5, 7, 8, 10	NO
Claims	6, 9	YES						
Claims	1-5, 7, 8, 10	NO						
	Inventive step (IS)	<table border="0"> <tr> <td>Claims</td> <td></td> <td>YES</td> </tr> <tr> <td>Claims</td> <td>1-10</td> <td>NO</td> </tr> </table>	Claims		YES	Claims	1-10	NO
Claims		YES						
Claims	1-10	NO						
	Industrial applicability (IA)	<table border="0"> <tr> <td>Claims</td> <td>1-10</td> <td>YES</td> </tr> <tr> <td>Claims</td> <td></td> <td>NO</td> </tr> </table>	Claims	1-10	YES	Claims		NO
Claims	1-10	YES						
Claims		NO						
2.	Citations and explanations:							
	<p>Document 1: JP, 10-259789, A (Enplas Corporation), 29 September, 1998 (29.09.98), claims 1 and 3, paragraphs [0015]-[0031], Figs. 1 and 3</p> <p>Document 2: JP, 2001-293751, A (Takaoka Seiko Co., Ltd.), 23 October, 2001 (23.10.01), claim 1, paragraphs [0026]-[0047], Figs. 1-7</p> <p>Document 3: JP, 2001-353753, A (Enplas Corporation), 25 December, 2001 (25.12.01), claim 1, paragraphs [0029]-[0032], Fig. 2</p> <p>Claims 1-5, 7, 8 and 10</p> <p>The subject matters of claims 1-5, 7, 8 and 10 do not appear to be novel or to involve an inventive step in view of document 1 cited in the ISR.</p> <p>Concerning a circular resin molded product having a circular hole at the center, a method for molding the same, and an apparatus for molding the same, document 1 describes that:</p> <p>the circular resin molded product is formed by injecting a molten resin into a mold from an injection gate, and cooling the resin to be solidified,</p> <p>a circumferential gate trace is formed in the axis direction of the circular resin molded product at the central position in the diameter direction on one of the front and back surfaces of the circular resin molded product, and</p> <p>the front and back surfaces of the circular resin molded product are substantially flat.</p> <p>Furthermore, from Figs. 1 and 3 of document 1, it is considered that:</p> <p>the outer diameter of a first pin (corresponding to "first center pin") corresponds to the inner diameter of the circular hole of the circular resin molded product,</p> <p>the injection gate is formed by a circumferential sleeve formed by a cylindrical gap formed in the mold on the periphery of a second center pin, and</p> <p>the thickness of the injection gate becomes smaller in the direction toward the circular resin molded product, and is the smallest at a leading end portion jointed to the circular resin molded product.</p> <p>Claims 6 and 9</p> <p>The subject matters of claims 6 and 9 do not appear to involve an inventive step in view of documents 1-3 cited in the ISR.</p> <p>Since it is a well-known technique that the center pin is extended to near a runner to form the gate generally in the shape of a circumferential sleeve, and the center pin is extended to only the leading end portion jointed to the circular resin molded product to form portions near the leading end portion in the shape of a circumferential sleeve and other portions in the shape of a solid circular rod as described in, for example, documents 2 and 3, it is considered to be easy for a person skilled in the art to apply the technique in the invention of document 1.</p>							